

Original design

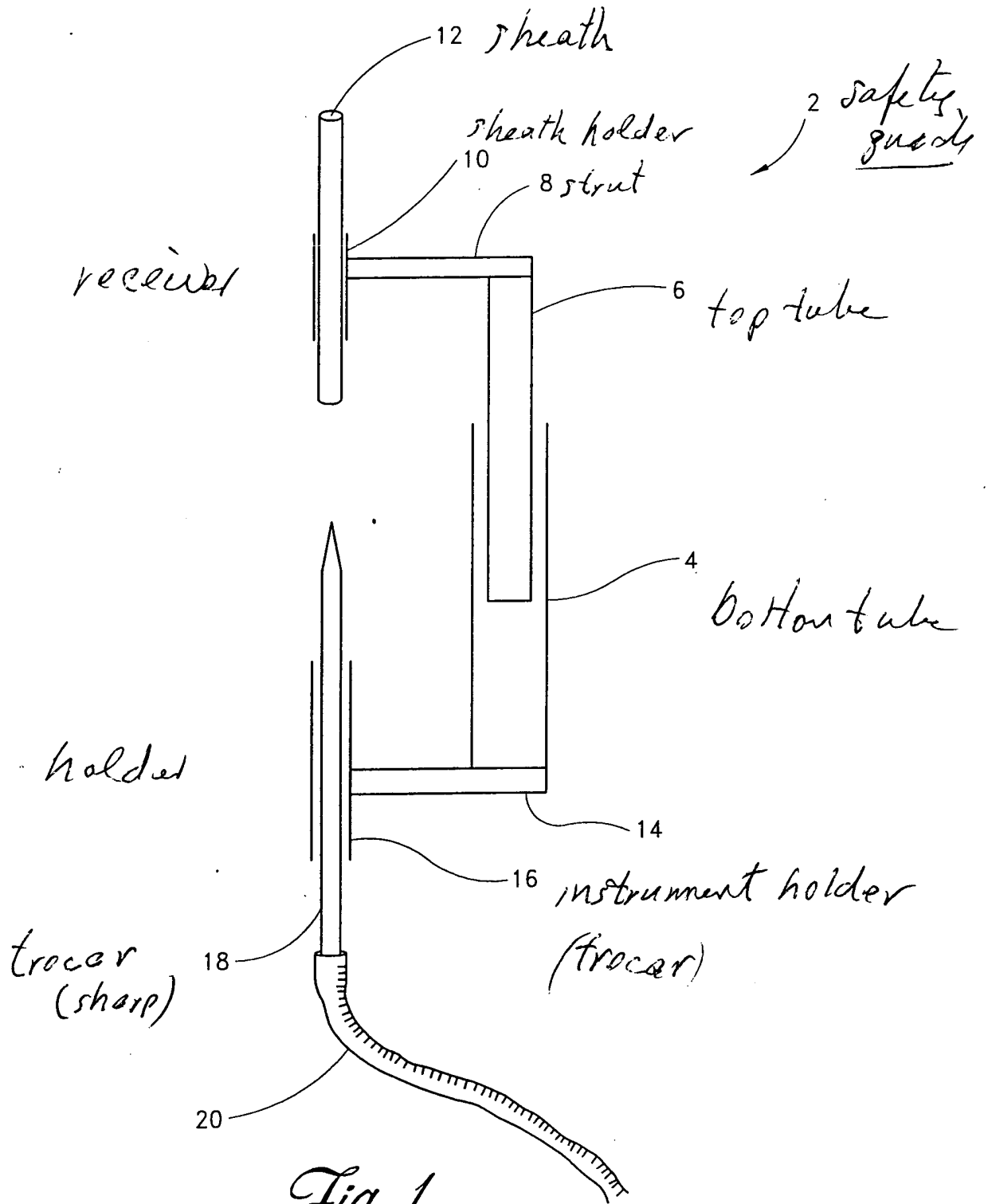


Fig. 1

safety guard with
surgical trocar, drain, sheath

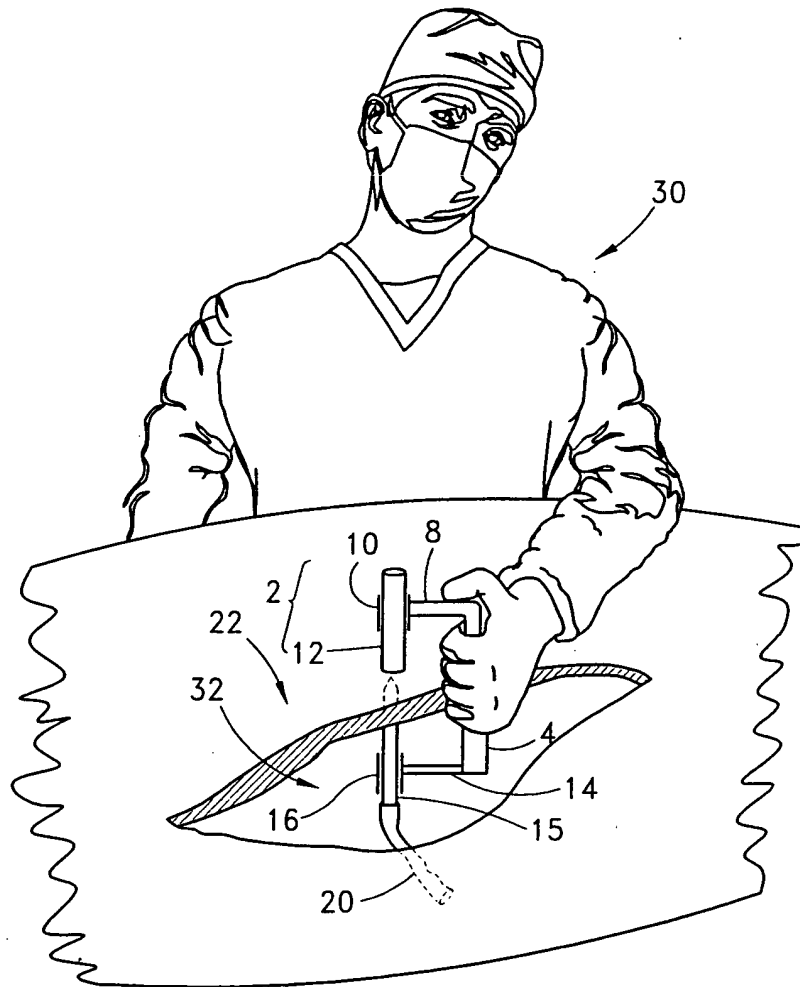


Fig. 2

surgeon placing trocar through a patient's skin using safety guard

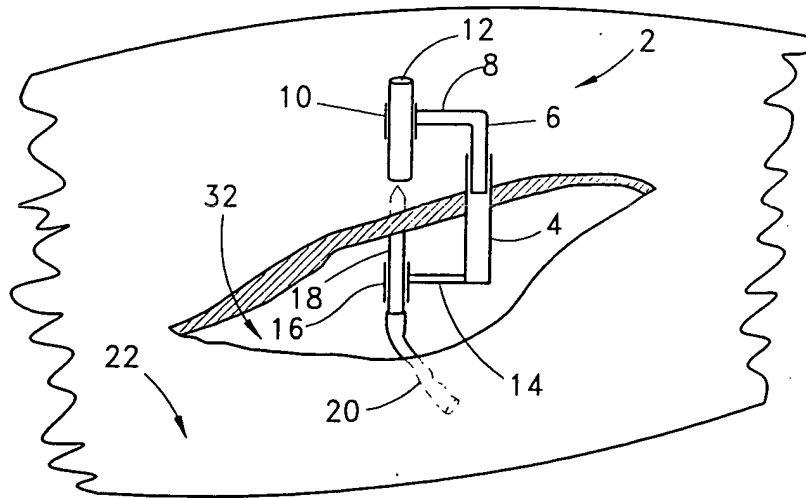


Fig. 3
oblique elevation view safety guide prep
for penetration of surg. trocar through skin

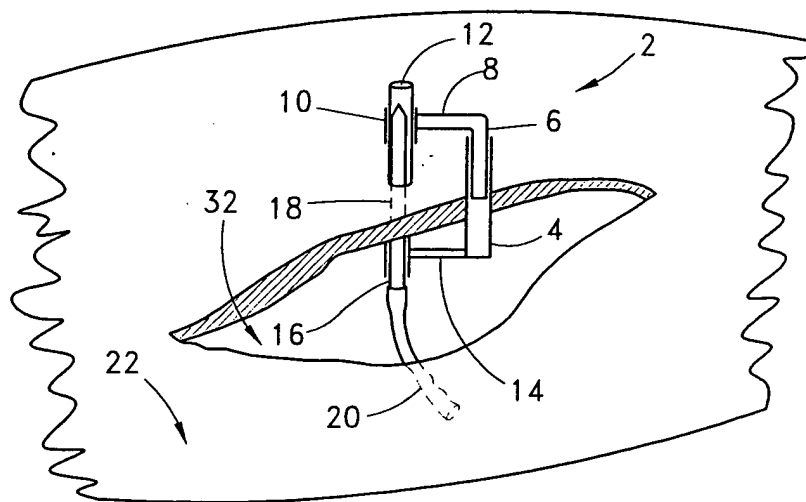


Fig. 4 *safety guide*
with trocar having penetrated skin

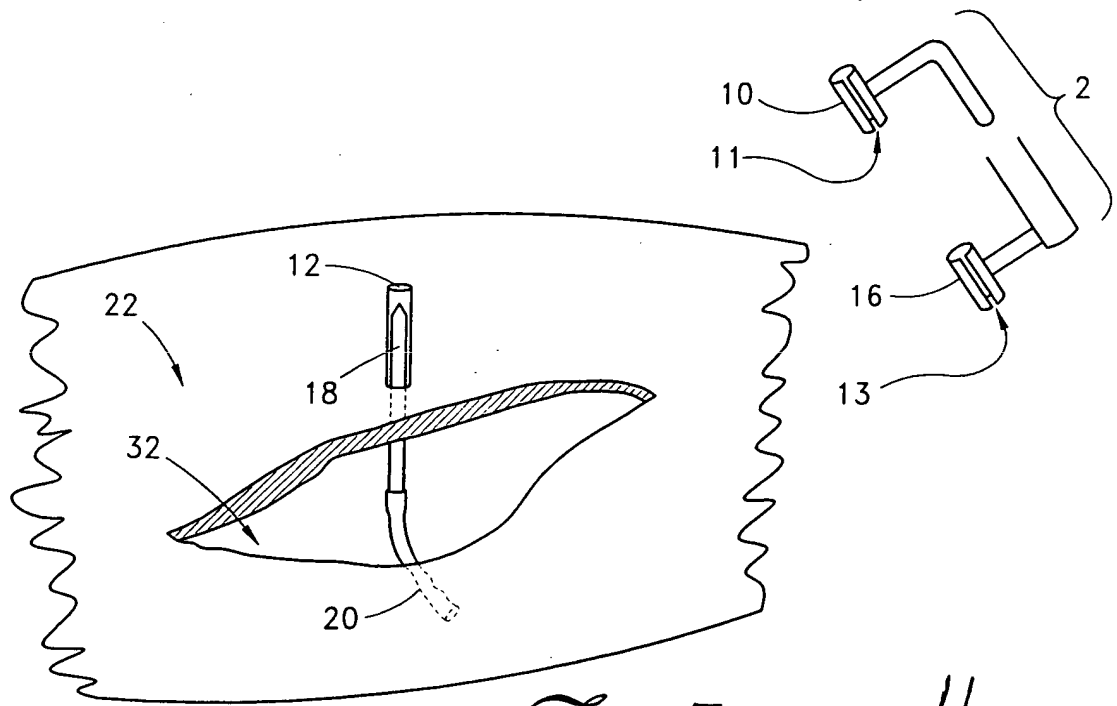


Fig. 5

softy guide

* peritoneal of softy guide from patient

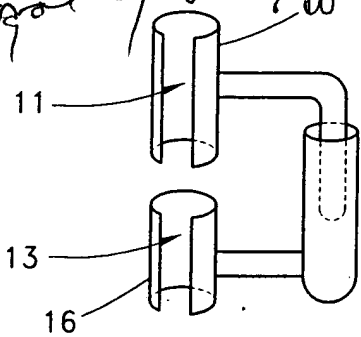
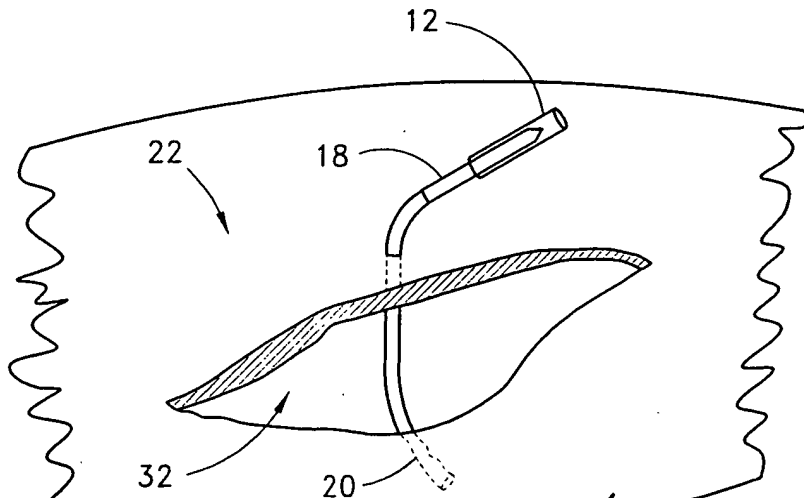


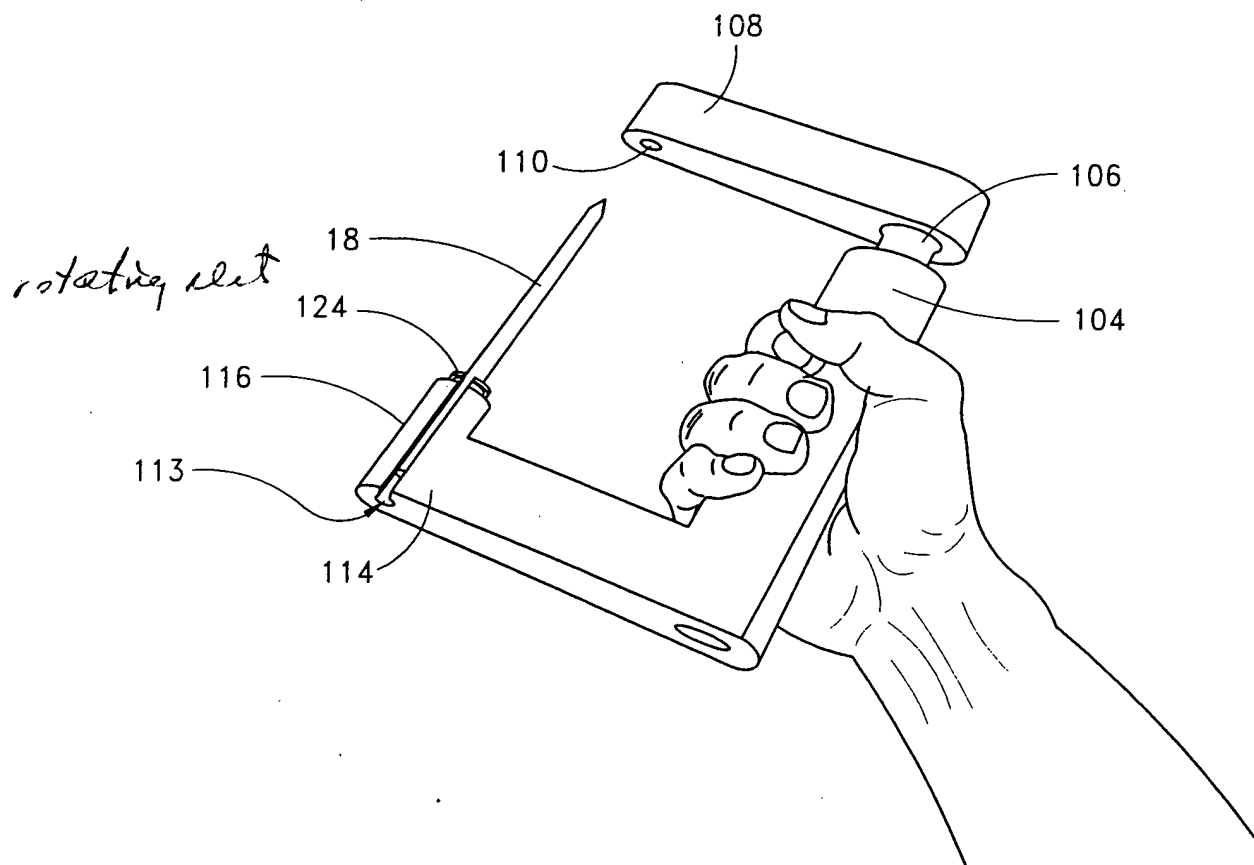
Fig. 5a softy guide with longitudinal guides



trochar & drain

bring with drain from patient

Fig. 6



Alternative embodiment of safety guide, with
Fig. 7

sheet held house within top strut -

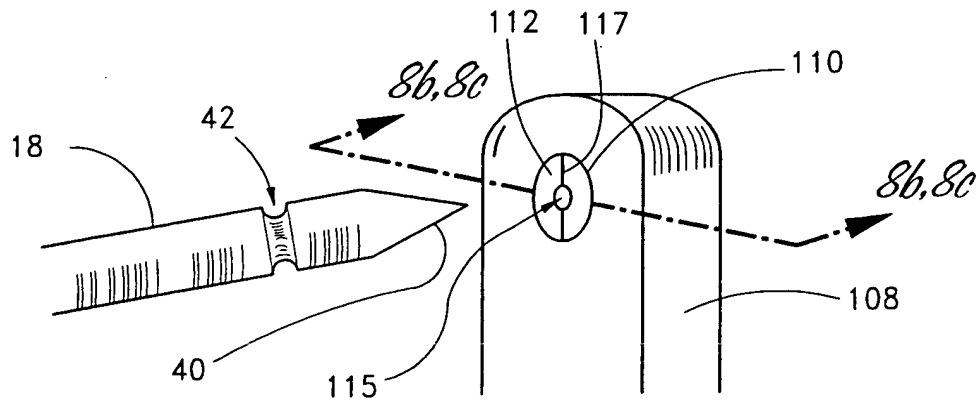


Fig. 8a
alternative embodiment of sheath holder

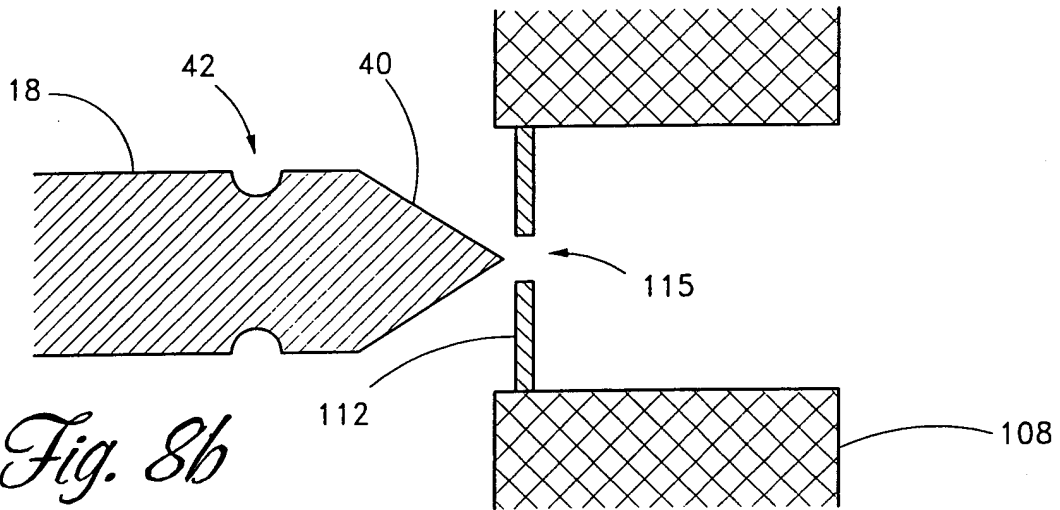


Fig. 8b

friction and recessed mechanism in safety guide

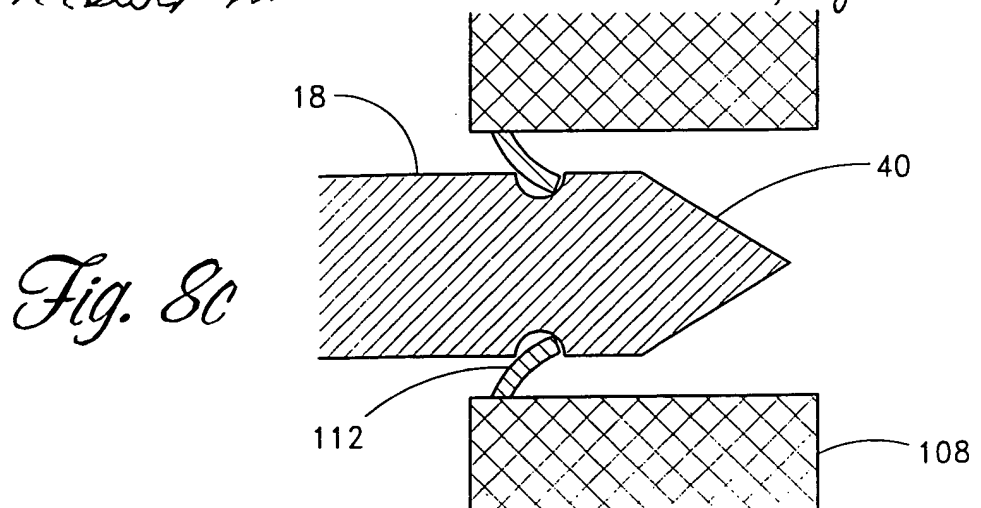


Fig. 8c

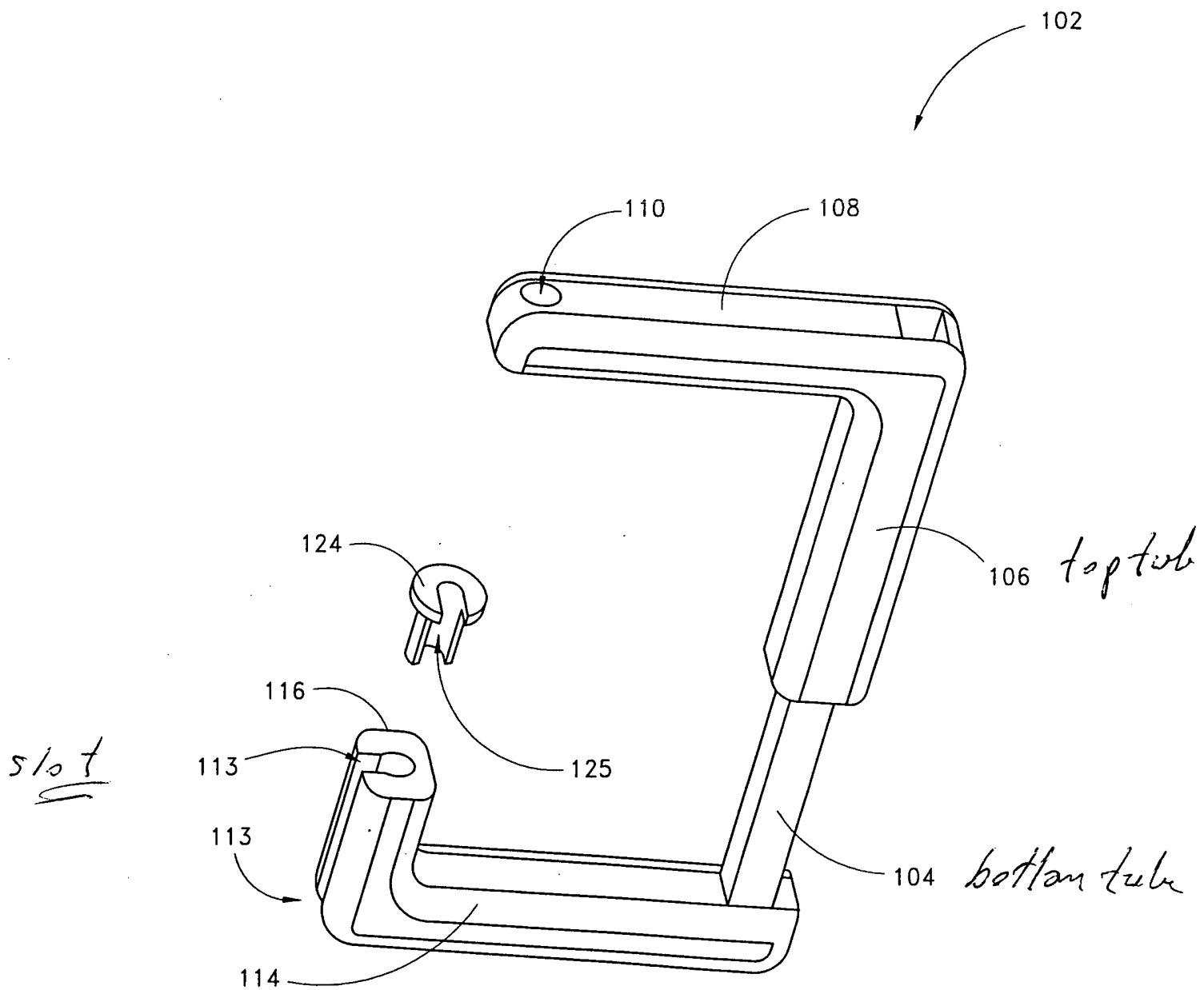
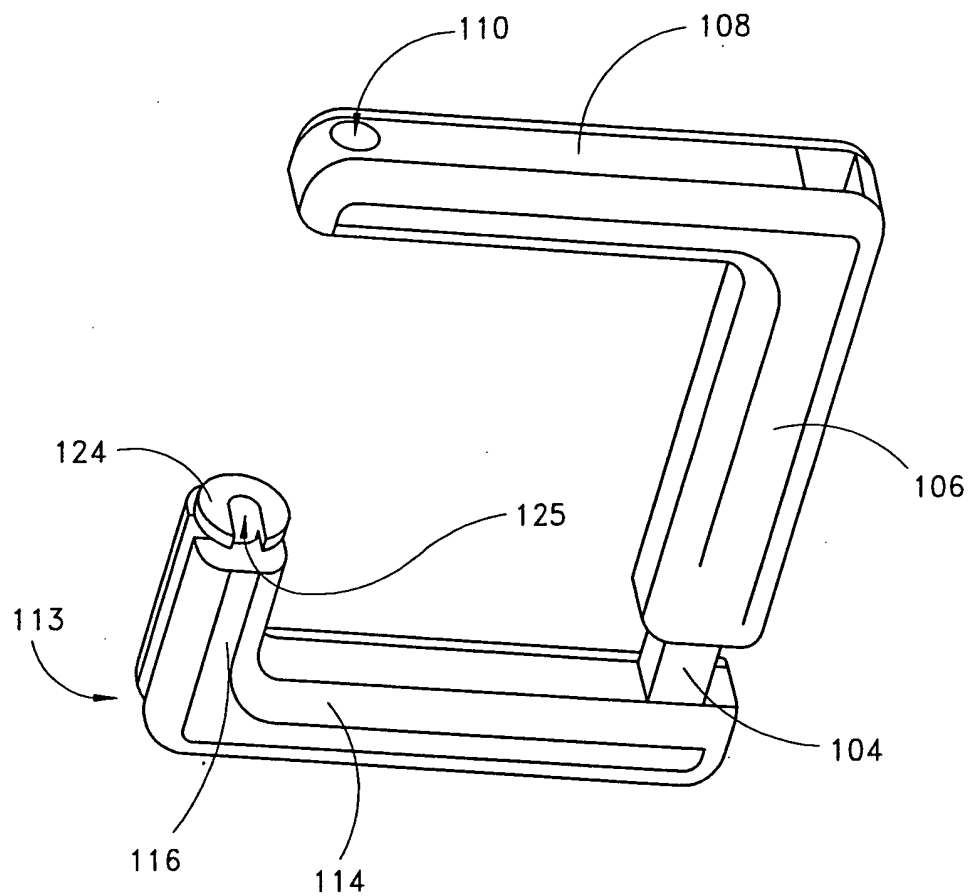


Fig. 9



alternative embodiment of rotatable plotter
Fig. 10

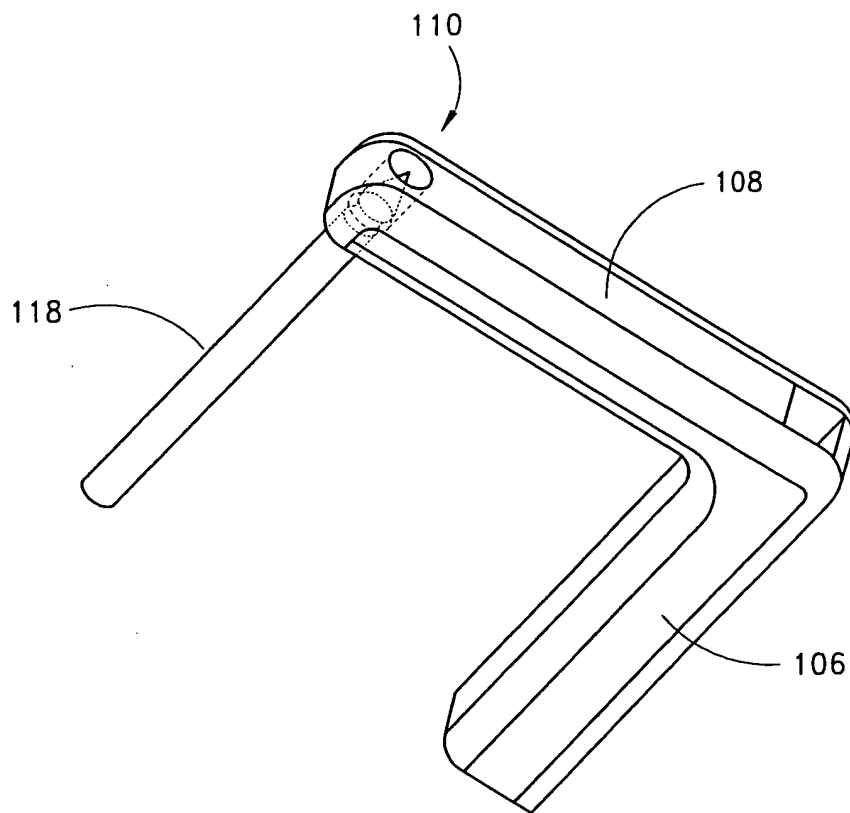


Fig. 12

side view of surgical trocar instrument
and an alternative embodiment of the sheath
holder